



COMPUTER ROOM AIR CONDITIONERS

COMPUTEMP

BLAZER
Corporation

EAST RUTHERFORD, NEW JERSEY

COMPUTEMP

The finest system available today for providing the ideal environmental operating conditions in computer rooms.

By utilizing "space-age" techniques in computer room air conditioning, maximum reliability from data processing equipment is assured.

This is COMPUTEMP . . . supplying temperature, humidity and air cleanliness within narrow tolerances, which in turn permits maximum operating efficiency. Conventional, comfort air conditioning operates under much broader tolerances, preventing the computer from working at it's maximum reliability. In short, COMPUTEMP is designed exclusively for the computer and computer room.

All of the precise engineering details acquired through the installation of hundreds of computer systems, and with the cooperation of leading computer manufacturers, have been designed and factory assembled into one, self-contained package . . . COMPUTEMP.

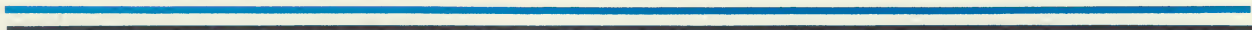
Dual Compressors • Dual Blowers • Two Stage Reheat • Evaporative Stainless Steel Pan Type Humidifier • Built-In Control Panel • Alarm Systems • Fire Detection • Completely Servicable From The Front Of Unit • Requires No Supply Or Return Ducts Because Of Its Unique Down Blow Design • High Efficiency Air Filtration

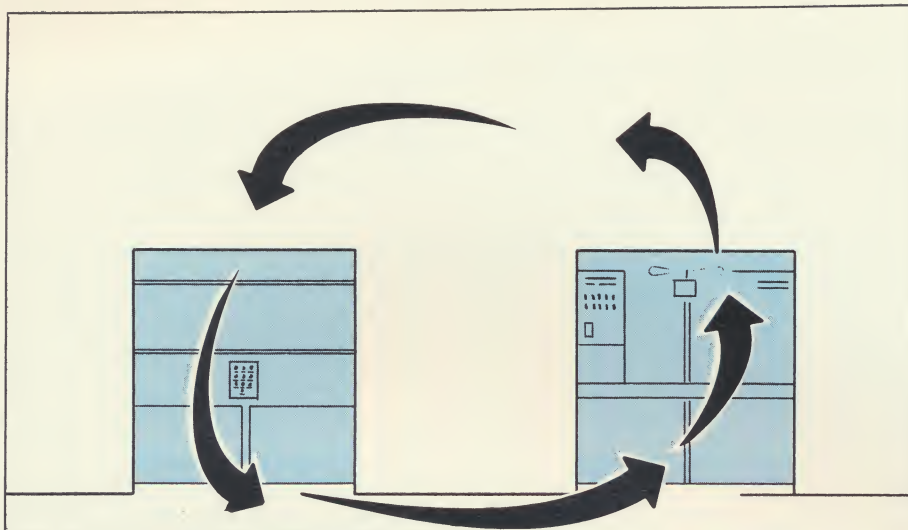
☐ **LOWEST COSTS**

☐ **MODULAR DESIGN**

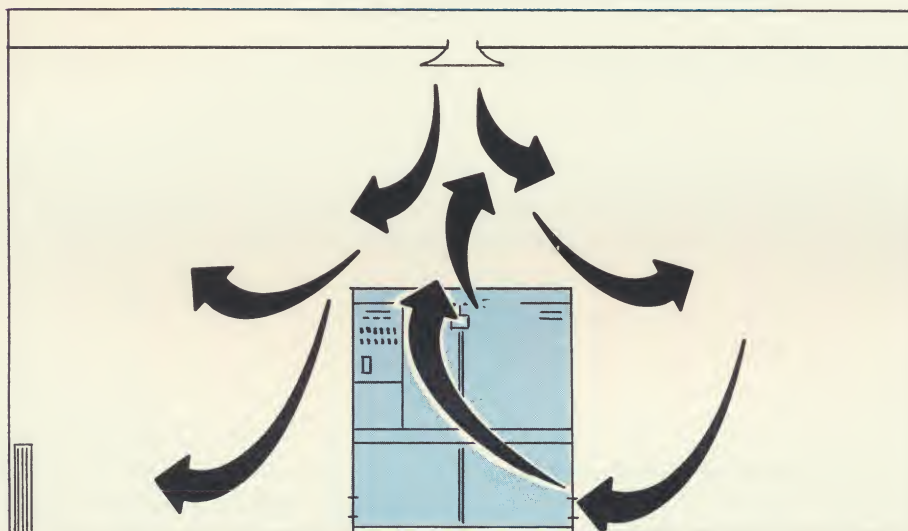
☐ **REQUIRES LESS SPACE**

☐ **MAXIMUM RELIABILITY**

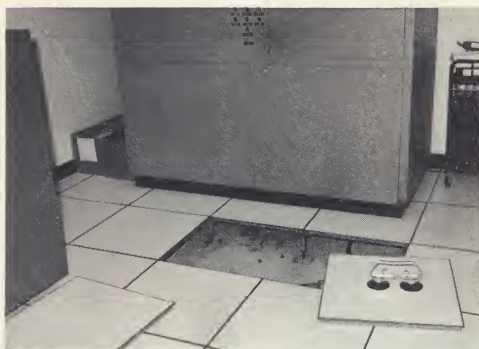




Utilizing the elevated floor space as an air distribution plenum, COMPUTEMP delivers air of proper temperature and humidity at the floor level, through grilles, from which it is pulled into the computer and ejected at the ceiling . . . thus, permitting the natural flow of warm air. This "more practical" technique allows continuous, uninterrupted flow of conditioned air.



It is a well known physical law that warm air rises, cold air falls. Conventional air conditioning systems, discharging cool air at the ceiling, do not permit the natural flow of heated air to rise. Instead, the warm air ejected by the computer mixes with the cool air from the grille, creating much turbulence . . . cool air is prevented from entering the bottom of the computer.



LEFT: COMPUTEMP unit installed at B.V.D. Corporation, Montvale, New Jersey. View shows the ease of installation and flexibility of the raised floor panels. Ductwork is not required, allowing additional versatility for computers to be placed anywhere in the computer room. Note the "built-in" control panel on the COMPUTEMP unit.

GENERAL SPECIFICATIONS

	MODEL					
	50W	50A	80W	80A	100W	100A
LENGTH (inches)	45	45	76	76	76	76
WIDTH (inches)	33 1/2	33 1/2	33 1/2	33 1/2	33 1/2	33 1/2
*HEIGHT (inches)	84	84	84	84	84	84
WEIGHT (lbs.)	1140	1080	1800	1780	1810	1850
CFM @ .30" Ext. S.P.	2200	2200	3800	3800	4500	4500
COOLING MBH	58.0	56.0	81.0	82.0	116.0	111.0
HEATING MBH	34.2	34.2	48.5	48.5	48.5	48.5
HUMIDIFICATION (lbs. water per hr.)	13.0	13.0	13.0	13.0	13.0	13.0
HEATING KW PER STAGE (2 stages)	5.0	5.0	7.2	7.2	7.2	7.2
**HUMIDIFIER KW	4.0	4.0	4.0	4.0	4.0	4.0
†MAX. F.L.A. @ 220 volts A.C.	62.8	72.1	87.4	96.6	98.4	117.2
††GPM CONDENSER WATER (total) (85°F. entering 95°F. leaving)	15.1	—	22.6	—	30.2	—
P.D. - PSIG (includes water regulating valve)	11.0	—	5.7	—	11.0	—
REFRIGERANT lbs. R-22 (per stage)	15.0	58.0	13.0	50.0	15.0	58.0
FAN MOTOR H.P.	1 1/2	1 1/2	2	2	2	2
COMPRESSOR H.P. & QUANTITY	(1) 4	(1) 5	(2) 3	(2) 3 1/2	(2) 4	(2) 5
COOLING COIL - ROWS DEEP	6	6	5	5	6	6
COOLING COIL - SQ. FEET FACE AREA	5.4	5.4	10.0	10.0	10.0	10.0
CONDENSER WATER CONNS. - I.P.S.	1"	—	1 1/4"	—	1 1/4"	—
WATER MAKE-UP (Humidifier) O.D. COPPER	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
CONDENSATE WASTE CONN. - O.D. COPPER	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
REMOTE CONDENSER CONN. - O.D. COPPER	—	(2) 7/8"	—	(4) 7/8"	—	(4) 7/8"

FOOTNOTES

*Includes 10" high, removable filter section.
*5" high filter section available, (79" overall height).

**5 KW element on 440/480 volt systems.

†Includes remote air cooled condenser fan motors (1)-1HP on model 50A, (2)-1HP on models 80 and 100A.

††Condenser water volume and pressure drop based on cooling tower operation. Condensers can be connected for city or well water as specified.

Suffix "A" after model number denotes air cooled model.

Suffix "W" after model number denotes water cooled model.

OPTIONALS

Standard unit power supply is 208/220 volt, 3 phase, 60 cycle

Optional voltage is 440/480, 3 phase, 60 cycle

Units may be operated on 50 cycle current and will provide 85% of 60 cycle capacity

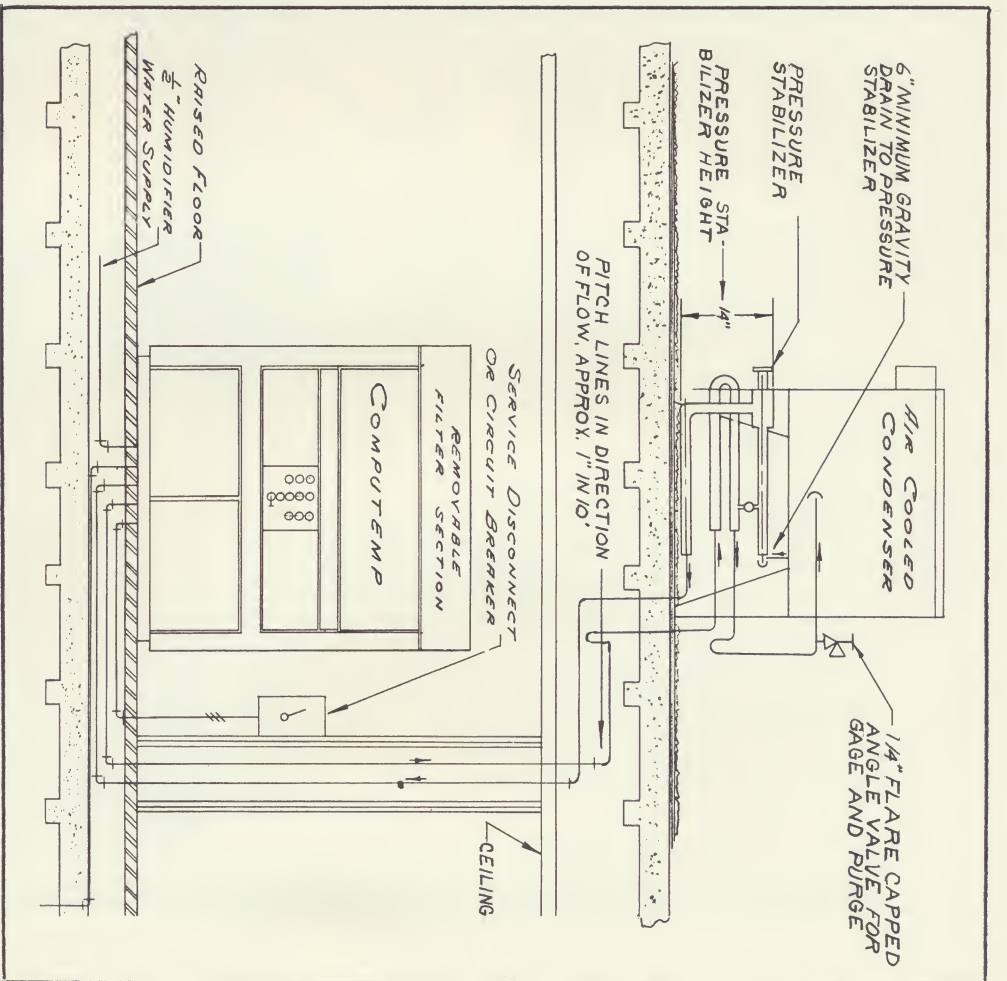
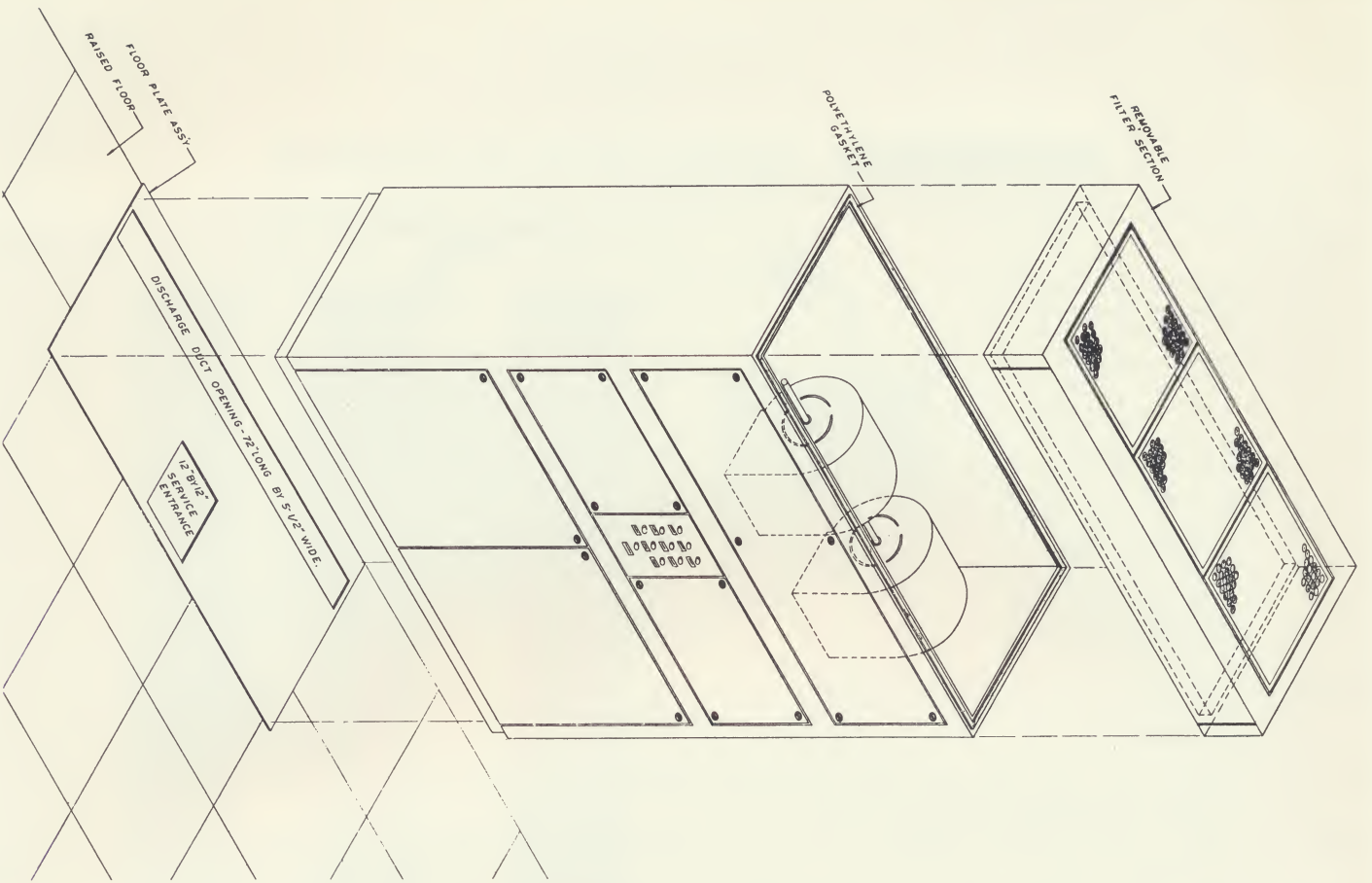
Units are also available with the following modifications:

- Three way condenser water regulating valves
- Extended filter plenums to utilize hung ceiling spaces as return air plenums
- Extended filter plenums with front and/or end return air grilles or registers

Air cooled models are furnished with oversized refrigerant receivers sized to hold the complete system charge on pumpdown.

Units with coils for chilled water in lieu of direct expansion, and with steam or hot water reheat coils in lieu of electric coils.

Units with up blast fan discharge and front return air grilles.



▲ SCHEMATIC PIPING FOR AIR COOLED CONDENSER

▲ Exploded view illustrates filter section, main section of unit, discharge duct opening and service entrance.

GENERAL DATA

Required Environmental Scope — Designed to maintain a temperature of 72°F., plus or minus 2.5°F., and 50% relative humidity, plus or minus 5%, within the computer room.

Control Panel — The Control panel is "built-into" the COMPUTEMP unit. It contains ample pilot lights and safety controls to guarantee faultless operation. Temperature and humidity controls are of the non-adjustable type (although they can be recalibrated in the field) so that the settings cannot be changed by operating personnel.

Cabinets — Units can be painted any color and finished to match with or contrast the color of the computer. All welded furniture steel construction, fully insulated for maximum thermal and acoustic value. Full front access to all internal components. Humidifier and drain pans of stainless steel. Internal pre-wired and factory set controls with front operating panel and indicating system pilot lights and switches and a built in fire-stat and high air temperature alarm circuit, including "filter-dirty" light.

Compressors — Of the welded hermetic type complete with thermal over-load protection; crankcase sight glass and service valves with gauge ports.

Air Filters — Are of the high efficiency, replaceable type, which provide the maximum in required air cleanliness for the

data processing equipment, as well as the computer room itself.

Evaporator Coils — Of heavy wall seamless copper tubing with solder bonded copper fins and stainless steel casing and tube supports, for long life.

Fans — Forward curved blade centrifugal type, slow speed with resilient mounted long life, quiet operating ball bearings, double groove cast iron vee belted drives and quiet operating cushion base motors.

Condensers —

Water Cooled — Units are fitted with shell and tube type, cleanable condenser-receivers with non-ferrous water channels.

Air Cooled — Remote companion air cooled condensers of the centrifugal fan type for quiet operation and for use with duct work if needed, having 2 separate refrigerant condensing coils, 2 separate fans and individual motors, 2 sets of low ambient controls for operation in ambient temperatures down to 0°F., Disconnect switches factory wired for each motor. Condensers available for use at 95°F. northern design ambient or 105°F. southern design ambient temperature.

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